



Figure 39. Annual periodicity in salinity based on the logarithm base 10 of the ratio of Diel to M2 variance at Joe Leary Slough (Padilla Bay NERR), 1995-2000. Panel (A) depicts this log-ratio relative to the sampling period (Jan 1995-Dec 2000), whereas panel (B) depicts the seasonal signal of this log-ratio across all sampling years ($p = 1.462e^{-013}$).

Results and Discussion

Phase 1, Deployment fits

The following graphs (Appendices 35-39) provide examples of patterns that appeared in the deployment level analyses. These examples are not exhaustive and are included mainly to inspire exploration of the 3-6 year records available in Powerpoint “movies” for each of the 8 variables at 55 NERR sites (with a few exceptions). Specifically, we hope that scientists familiar with the dynamics of any given site(s) will spend time inspecting these Powerpoint images for these site(s) in order to help generate explanations for patterns that may emerge. The images themselves are at times noisy, and fitted curves may not always correspond to real patterns, especially if the residual scatter in a constituent’s plot is substantial. We recommend that any particular pattern in a constituent “signature” be taken seriously only if it recurs in similar form across several consecutive deployments, or across several years at a similar time of year, or if a reasonable scientific explanation for the pattern can be offered.